



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**D5573-2**  
**Job Sheet 178602**

Accounting Job RD17-1046-01



Part No: D5573-2

Job Qty: 1 ea

Part Name: Base Bracket, Upper, Cable Cutter, RH



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 6/4/18

Job Tracking No:

Due Date: 6/6/18

Created By: Marie Lajeunesse

Type: R+D

Description:

Note: TBD DWG D5573-1 REV.b2 IPP REV A 18.02.05 NEW ISSUE RQ VERIFIED BY DP IPP REV b 18.06.04 dwg  
rev.b2 DD VERIFIED BY DP

Ship Via:

### Bill of Materials

### Job Routing

| Op No | Operation              | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off    |
|-------|------------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|-------------|
|       |                        |       |            |          | Setup hrs | Run Hrs | Workcenter / Supplier | Lead Time |             |
| 90    | Start up Operation     | 1 Ea  | 6/6/18     | 6/6/18   | 0.00      | 0.00    | Start Up Machining-1  |           |             |
| 110   | CNC Vertical Machining | 1 pcs | 6/6/18     | 6/6/18   | 0.00      | 0.30    | HAAS Axis             |           | 18-06-06    |
| 120   | QC                     | 1 pcs | 6/6/18     | 6/6/18   | 0.00      | 0.00    | QC2 Machining-1       |           | 5161616     |
| 130   | QC                     | 1 pcs | 6/6/18     | 6/6/18   | 0.00      | 0.00    | QC8 Machining-1       | to Rev B2 | 5161616     |
| 135   | Outsource              | 1 pcs | 6/6/18     | 6/6/18   |           |         | ATG001-VC             | 10        | CT 18-6-6   |
| 140   | Packaging              | 1 pcs | 6/6/18     | 6/6/18   | 0.00      | 0.00    | Packaging2            |           | 18/06/08    |
| 150   | QC                     | 1 pcs | 6/6/18     | 6/6/18   | 0.00      | 0.00    | QC6                   |           | JUN 08 2018 |
| 180   | Packaging              | 1 pcs | 6/6/18     | 6/6/18   | 0.00      | 0.00    | Packaging3-1          |           |             |
| 190   | QC21-SA                | 1 Ea  | 6/6/18     | 6/6/18   | 0.00      | 0.00    | QC21                  |           | JUN 0 2018  |

Part Op 110 - 1-Machine per folio FB767 DWG REV: \_\_\_\_\_ FOLIO REV: \_\_\_\_\_ 2- deburr and break all sharp edges  
Descriptions: 120 - QC2- Inspect parts off machine FAI/FAIB  
130 - QC8- Inspect parts - second check  
135 - Issue P/O to ATG : P0040123 Black Anodize & Prime as per Dwg. D5573 Certification of Conformity is required.  
140 - Certification of Conformity is required.  
180 - Identify as per dwg & Stock Location: \_\_\_\_\_  
190 - QC21- Final Inspection - Work Order Release

**POSITIVE RECALL**

EFFECTIVE 04 2018 TH

RELEASED 5 DATE 18/06/18

### Job BOM

| Part / Item         | Component Name                | Quantity         | Operation             | Container           |
|---------------------|-------------------------------|------------------|-----------------------|---------------------|
| M7075T6S1.750X3.000 | 7075-T6 Sheet 1.750" X 3.000" | .6000 ft (.6 ea) | 90-Start up Operation | 5078447<br>P0038697 |

### Job Allocations

| Operation             | Component Part      | Required | Inventory | Allocated |
|-----------------------|---------------------|----------|-----------|-----------|
| 90-Start up Operation | M7075T6S1.750X3.000 | 1        | 24        | 0         |

### Part Specifications

Specifications could not be found.

DQA: \_\_\_\_\_ Date: \_\_\_\_\_

## WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                      |
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| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                      | <b>AGAINST DEPARTMENT/PROCESS</b><br><br>Skid-tube <input type="checkbox"/> Cross tube <input type="checkbox"/> Water Jet <input type="checkbox"/> Engineering <input type="checkbox"/><br>_____    _____    _____    Quality <input type="checkbox"/><br>_____    _____    _____    Other <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                      |
| Date : _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Step #: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>MRB (QSI042) Approval</b><br><br>_____<br><br><b>Completed By</b><br><br>_____<br><br><b>Lead hand / Supervisor Approval Verification</b><br><br>_____<br><br><b>QC / QA Coordinator Approval</b><br><br>_____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                      |
| <b>Description Work Order Deviation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                      |
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| <b>Root Cause</b><br><table style="width: 100%;"> <tr> <td style="width: 50%;">           Environment <input type="checkbox"/><br/>           Design <input type="checkbox"/><br/>           Doc/Data <input type="checkbox"/><br/>           Equip/Tooling <input type="checkbox"/><br/>           Handling/Pre <input type="checkbox"/><br/>           Material <input type="checkbox"/><br/>           Internal Transport <input type="checkbox"/><br/>           Tribal Knowledge <input type="checkbox"/><br/>           LOA <input type="checkbox"/><br/>           Substation <input type="checkbox"/><br/>           Past Expiry Date <input type="checkbox"/><br/>           Misidentified <input type="checkbox"/> </td> <td style="width: 50%;">           No Re-verification <input type="checkbox"/><br/>           Operator <input type="checkbox"/><br/>           Offset/Setup <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Training <input type="checkbox"/><br/>           Use for Testing <input type="checkbox"/><br/>           Poor Information <input type="checkbox"/><br/>           Rushing <input type="checkbox"/><br/>           Product Improvement <input type="checkbox"/><br/>           Process Improvement <input type="checkbox"/><br/>           Manufacturing Process <input type="checkbox"/><br/>           Past Due <input type="checkbox"/> </td> </tr> </table> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Environment <input type="checkbox"/><br>Design <input type="checkbox"/><br>Doc/Data <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Pre <input type="checkbox"/><br>Material <input type="checkbox"/><br>Internal Transport <input type="checkbox"/><br>Tribal Knowledge <input type="checkbox"/><br>LOA <input type="checkbox"/><br>Substation <input type="checkbox"/><br>Past Expiry Date <input type="checkbox"/><br>Misidentified <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                         | No Re-verification <input type="checkbox"/><br>Operator <input type="checkbox"/><br>Offset/Setup <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Training <input type="checkbox"/><br>Use for Testing <input type="checkbox"/><br>Poor Information <input type="checkbox"/><br>Rushing <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Past Due <input type="checkbox"/> | <table style="width: 100%;"> <tr> <td style="width: 50%;">           Pressure/Forced <input type="checkbox"/><br/>           Bending <input type="checkbox"/><br/>           Centre Not Concentric <input type="checkbox"/><br/>           Cracks <input type="checkbox"/><br/>           Crimp/Kink/Ripple/Wave <input type="checkbox"/><br/>           Cuffs <input type="checkbox"/><br/>           Crushing <input type="checkbox"/><br/>           Heat Treat <input type="checkbox"/><br/>           Wave/Twist in Tube <input type="checkbox"/><br/>           Marks/Chatter <input type="checkbox"/> </td> <td style="width: 50%;"> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/><br/> <input type="checkbox"/> </td> </tr> </table> |                                                                               | Pressure/Forced <input type="checkbox"/><br>Bending <input type="checkbox"/><br>Centre Not Concentric <input type="checkbox"/><br>Cracks <input type="checkbox"/><br>Crimp/Kink/Ripple/Wave <input type="checkbox"/><br>Cuffs <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Heat Treat <input type="checkbox"/><br>Wave/Twist in Tube <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/> | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |
| Environment <input type="checkbox"/><br>Design <input type="checkbox"/><br>Doc/Data <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Pre <input type="checkbox"/><br>Material <input type="checkbox"/><br>Internal Transport <input type="checkbox"/><br>Tribal Knowledge <input type="checkbox"/><br>LOA <input type="checkbox"/><br>Substation <input type="checkbox"/><br>Past Expiry Date <input type="checkbox"/><br>Misidentified <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No Re-verification <input type="checkbox"/><br>Operator <input type="checkbox"/><br>Offset/Setup <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Training <input type="checkbox"/><br>Use for Testing <input type="checkbox"/><br>Poor Information <input type="checkbox"/><br>Rushing <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Past Due <input type="checkbox"/> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                      |
| Pressure/Forced <input type="checkbox"/><br>Bending <input type="checkbox"/><br>Centre Not Concentric <input type="checkbox"/><br>Cracks <input type="checkbox"/><br>Crimp/Kink/Ripple/Wave <input type="checkbox"/><br>Cuffs <input type="checkbox"/><br>Crushing <input type="checkbox"/><br>Heat Treat <input type="checkbox"/><br>Wave/Twist in Tube <input type="checkbox"/><br>Marks/Chatter <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/>                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                      |
| OTHER : <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <table style="width: 100%;"> <tr> <td style="width: 50%;">           Positioned Wrong <input type="checkbox"/><br/>           Outside Dimensions <input type="checkbox"/><br/>           Over/Under tolerance <input type="checkbox"/><br/>           Part Incorrect <input type="checkbox"/><br/>           Part Lost/Missing <input type="checkbox"/><br/>           Part Moved <input type="checkbox"/><br/>           Drawing <input type="checkbox"/><br/>           Finish <input type="checkbox"/><br/>           Misread <input type="checkbox"/><br/>           Turning Sequence <input type="checkbox"/> </td> <td style="width: 50%;">           _____<br/>           _____<br/>           _____<br/>           _____<br/>           _____<br/>           _____<br/>           _____<br/>           _____<br/>           _____         </td> </tr> </table> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Positioned Wrong <input type="checkbox"/><br>Outside Dimensions <input type="checkbox"/><br>Over/Under tolerance <input type="checkbox"/><br>Part Incorrect <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Part Moved <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Misread <input type="checkbox"/><br>Turning Sequence <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | _____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____ |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                      |
| Positioned Wrong <input type="checkbox"/><br>Outside Dimensions <input type="checkbox"/><br>Over/Under tolerance <input type="checkbox"/><br>Part Incorrect <input type="checkbox"/><br>Part Lost/Missing <input type="checkbox"/><br>Part Moved <input type="checkbox"/><br>Drawing <input type="checkbox"/><br>Finish <input type="checkbox"/><br>Misread <input type="checkbox"/><br>Turning Sequence <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | _____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____<br>_____                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                      |

Date: 06/06/18

Instructions: \_\_\_\_\_  
 Exp Date: 06/06/2018  
 Inspector: \_\_\_\_\_  
 Revision: b2  
 Serial No/Batch: S078457  
 Part: D5573-2  
 Job No: 178602  
 Container No: S078457

DART AEROSPACE  
 1210 Ambrose Street  
 Markham, ON L3R 9K7  
 CANADA  
 TEL: 1 813 832-5200  
 Email: sales@dartaero.com  
 www.dartaerospace.com



|                           |             |                     |         |
|---------------------------|-------------|---------------------|---------|
| <b>DART AEROSPACE LTD</b> |             | <b>Work Order:</b>  | 178 602 |
| <b>Description:</b>       |             | <b>Part Number:</b> |         |
| <b>Inspection Dwg:</b>    | <b>Rev:</b> | <b>Page 1 of 1</b>  |         |

### INSPECTION SHEET

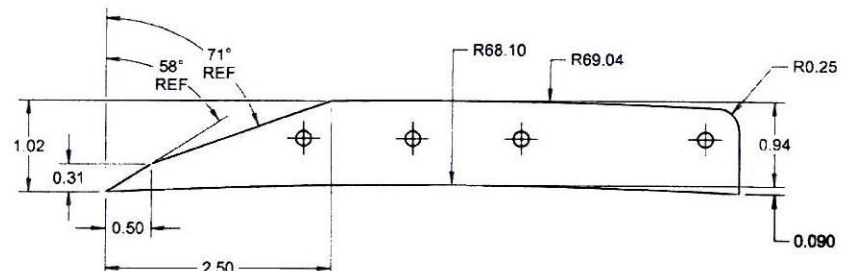
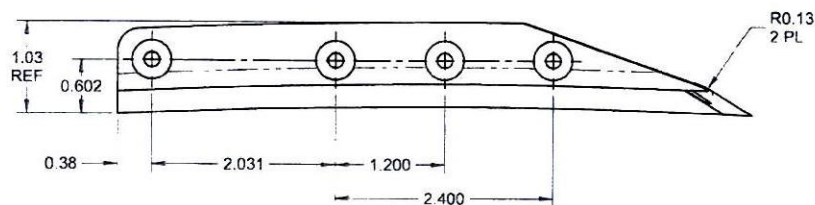
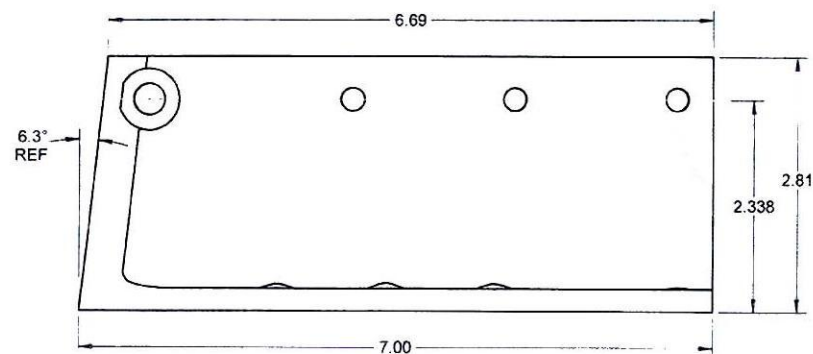
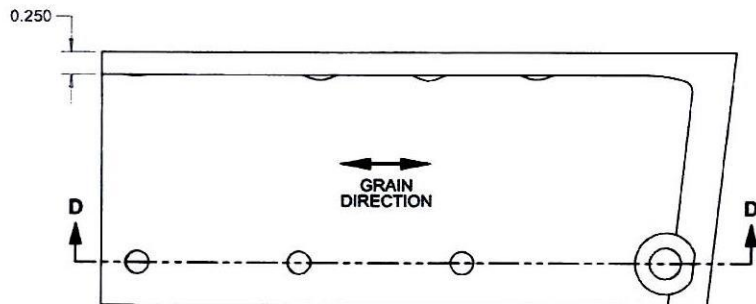
| Drawing Dimension | Tolerance                | Actual Dimension | Accept | Reject | Method of Inspection | Comments |
|-------------------|--------------------------|------------------|--------|--------|----------------------|----------|
| 6.69              | +/- .030                 | 6.690            | ✓      |        | SLIO                 | Vern     |
| 2.81              | +/- .030                 | 2.813            | ✓      |        |                      |          |
| 2.338             | +/- .010                 | 2.336            | ✓      |        |                      |          |
| 7.00              | +/- .030                 | 7.000            | ✓      |        |                      |          |
| .250              | +/- .010                 | .252             | ✓      |        |                      |          |
| .94               | +/- .030                 | .940             | ✓      |        |                      |          |
| .090              | +/- .010                 | .090             | ✓      |        |                      |          |
| 2.50              | +/- .030                 | 2.500            | ✓      |        |                      |          |
| .50               | +/- .030                 | .500             | ✓      |        |                      |          |
| .31               | +/- .030                 | .310             | ✓      |        |                      |          |
| 1.02              | +/- .030                 | 1.027            | ✓      |        |                      |          |
| R 68.10           | +/- .030                 | 68.100           | ✓      |        |                      |          |
| R 69.04           | +/- .030                 | 69.040           | ✓      |        |                      |          |
| R.25              | +/- .030                 | .250             | ✓      |        |                      |          |
| R.13              | +/- .030                 | .130             | ✓      |        |                      |          |
| 2.400             | +/- .005                 | 2.400            | ✓      |        |                      |          |
| 1.200             | +/- .005                 | 1.200            | ✓      |        |                      |          |
| 2.031             | +/- .005                 | 2.031            | ✓      |        |                      |          |
| .38               | +/- .030                 | .371             | ✓      |        |                      |          |
| .602              | +/- .010                 | .611             | ✓      |        |                      |          |
| φ .682            | +/- .010                 | .684             | ✓      |        |                      |          |
| .135              | +/- .010                 | .136             | ✓      |        |                      |          |
| φ .348            | + .006/- .001            | .348             | ✓      |        |                      |          |
| φ .430            | +/- .010                 | .429             | ✓      |        |                      |          |
| .100              | +/- .010                 | .100             | ✓      |        |                      |          |
| φ .170            | + .005/- .001            | .172             | ✓      |        |                      |          |
| <del>φ .257</del> | <del>+ .006/- .001</del> |                  |        |        |                      |          |
| .250              | +/- .010                 | .255             | ✓      |        |                      |          |
| .41               | +/- .030                 |                  |        |        |                      |          |

|                     |            |                    |                   |                      |  |
|---------------------|------------|--------------------|-------------------|----------------------|--|
| <b>Measured by:</b> | 20<br>9-89 | <b>Checked by:</b> | DAS<br>16<br>9-89 | <b>QC Inspector:</b> |  |
| <b>Date:</b>        | 18-06-06   | <b>Date:</b>       | 18/6/06           | <b>Date:</b>         |  |

|                                                |  |              |  |
|------------------------------------------------|--|--------------|--|
| <b>Engineering Approval:</b><br>(If necessary) |  | <b>Date:</b> |  |
|------------------------------------------------|--|--------------|--|

| Rev | Date     | Change    | Revised by | Approved |
|-----|----------|-----------|------------|----------|
| A   | 14.07.31 | New Issue | KJ         |          |

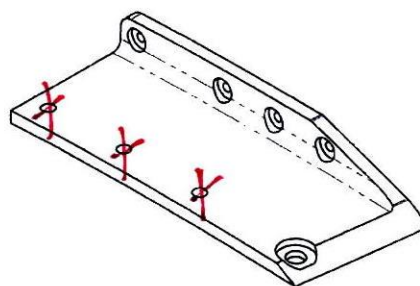
8 7 6 5 4 3 2 1



**D5573-2 BASE BRACKET, UPPER, CABLE CUTTER (RH)**

**NOTES:**

- 1) MATERIAL: 7075-T6 (OR T651/T6510/T6511/T62) ALUMINUM BAR  
PER AMS-QQ-A-225/9 (OR AMS 4122/4123/4186/4187) OR  
PER AMS-QQ-A-200/11  
REF DART SPEC M7075T6B  
OR: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE  
PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR  
AMS 4045 OR ASTM B209  
REF DART SPEC M7075T6S
- 2) FINISH: ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, COLOR = BLACK  
PRIME USING MIL-PRF-23377, 1-2 MIL MAX, PER DART QSI 005 4.2.1.3.2
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
- 7) WEIGHT: 0.55 lbs



**PRELIMINARY ISSUE**

Rev. P32 4/15/6/4

**UNAPPROVED**

DESIGN  
DRAWN  
CHECKED  
MFG. APPR.  
APPROVED  
DE APPR.  
DATE

AJS  
CP  
RF  
RQ  
HS  
CP

**DART AEROSPACE USA, INC.**  
EUGENE, OR

DRAWING NO.  
**D5573**  
TITLE  
**BASE BRACKET, UPPER,  
CABLE CUTTER**

REV. B2  
SHEET 3 OF 4  
SCALE  
NTS

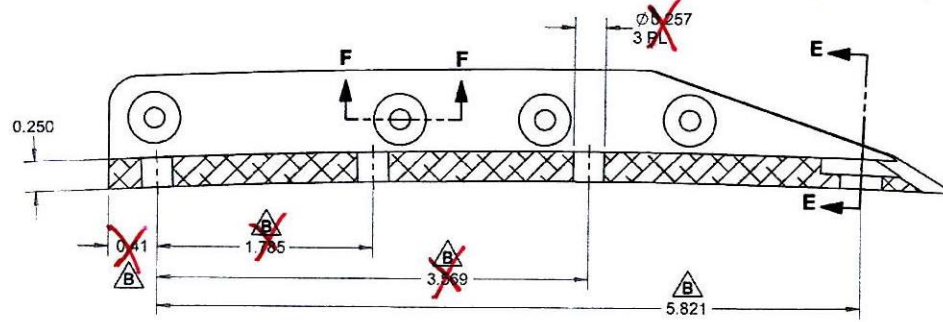
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18.06.04

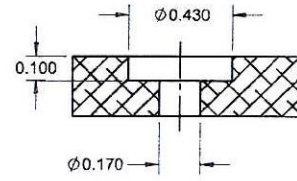
8 7 6 5 4 3 2 1

DAS  
12  
9-89

4/18/6/5



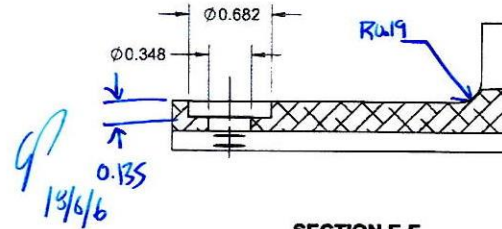
**SECTION D-D**  
SCALE 1.25X



**SECTION F-F**  
4 PL  
SCALE 2X

DAS  
12  
9-89

12/6/6



**SECTION E-E**

PRELIMINARY ISSUE

Rev. PB2

4/13/6/4

UNAPPROVED

DESIGN  
DRAWN  
CHECKED  
MFG. APPR.  
APPROVED  
DE APPR.  
DATE

AJS  
CP  
RF  
RQ  
HS  
CP

**DART AEROSPACE USA, INC.**  
EUGENE, OR

DRAWING NO.  
**D5573**

TITLE  
**BASE BRACKET, UPPER,  
CABLE CUTTER**

18.06.04

REV. B2  
SHEET 4 OF 4  
SCALE  
NTS

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WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.





Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

M7075T6S1.750X3.00

5078447.

## Purchasing Receipts

| PO No    | Supplier  | Line Item No | Rel No | Terms  | Purchased Item      | Description                                                                                                                                                                             | For Part No | Project | Equipment ID | Order Qty | Due Date | Received Quantity | Accounting Job No | Serial No | Status | Receive Date | Price/Unit   | Aging Days | Past Due | Total      | Supplier Name                   |
|----------|-----------|--------------|--------|--------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------|--------------|-----------|----------|-------------------|-------------------|-----------|--------|--------------|--------------|------------|----------|------------|---------------------------------|
| PO038697 | DIV001-VU | 1            | 1      | Net 30 | M7075T6S1.750X3.000 | 7075-T6 Sheet<br>1.750" X<br>3.000" :<br>MATERIAL:<br>7075-T6/762<br>ALUMINUM<br>SHEET AS<br>PER QQ-A-<br>250/12 OR<br>AMS-QQ-A-<br>250/12 OR<br>AMS 4045 OR<br>ASTM B209<br>receive it |             |         |              | 96        | 1/8/2018 | 48                |                   | S030258   | Stock  | 1/8/2018     | \$ 44.83 / R | 1          |          | \$2,151.96 | Diversified Industrial Products |
| Total:   |           |              |        |        |                     |                                                                                                                                                                                         |             |         |              | 96        |          | 48                |                   |           |        |              |              |            |          | \$2,151.96 |                                 |

Plex 1/9/2018 9:25 AM Dart Plouffe: Sonia

Status: Receiving

Part: **M7075T6S1.750X3**

Created: 1/9/18 8:24 AM DART.PLOUFFE.SON



Serial No: **S030258**



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

## PURCHASE ORDER PO038697

**Supplier:** DIV001-VU  
Diversified Industrial Products  
14 Connor Lane  
Deer Park, NY 11803 USA  
Phone: 516 822 8300  
Fax: 516 822 8332

**PO No:** PO038697

**PO Date:** 12/20/17

**Due Date:** 1/8/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**  
DEC 20 2017

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

### Items

| Line Item | Part                | Supplier Part No | Description                                                                                                                                          | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price          |
|-----------|---------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------------|-------------------|---------|------------------|-------------------------|
| 1         | M7075T6S1.750X3.000 |                  | 7075-T6 Sheet 1.750" X 3.000"<br>: MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209<br>receive ft | Firmed | 1/8/18   | 96 ft          | 0 ft              | 96 ft   | \$44.8325/ft     | \$4,303.92              |
|           |                     |                  |                                                                                                                                                      |        |          |                |                   |         |                  | Grand Total: \$4,303.92 |

### Order Notes

#### Procurement Quality Clauses

A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 12/20/17 1:50 PM dart.lavoie.chantal



14 Connor Lane, Deer Park, NY 11729 Tel: 631.761.6200 Fax: 631.761.6201

|               |            |    |
|---------------|------------|----|
| Customer PO # | Order Date | SP |
| PO038697      | 12/20/17   | AB |

|                    |          |
|--------------------|----------|
| Sales Order Number | 44870    |
| Invoice Date       | 1/2/2018 |
| Invoice Number     | 64915    |

Ship To:

DART AEROSPACE LTD.  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
CANADA

|        |          |
|--------|----------|
| # Pkg. | 1 BUNDLE |
| Weight | 360 LBS  |

|           |             |              |
|-----------|-------------|--------------|
| Ship Date | Shipped Via | Test Reports |
| 1/2/2018  | JOURNEY FRT | Y            |

| Item # | Order Qty | U/M | Description                                                                                                                                                                   | Qty Shipped | Bal. on Order |
|--------|-----------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|
| 1      | 96        | FT  | 7075-T6 ALUMINUM, QQ-A-250/12 OR<br>ASTM B-209<br>1.75" X 3" X 48"<br>MILL: KAISER<br>LOT #: 704550B3<br><br>SHIPPING SCHEDULE:<br>12 PCS - ASAP<br>12 PCS - WEEK OF 01/12/18 | 48          | 48            |

PACKING LIST  
CERTIFICATE OF COMPLIANCE

We certify that the materials described above conform to the specifications stated.

*Cathie Vail*

Quality Control Manager



|                                                                          |
|--------------------------------------------------------------------------|
| SHIP TO:                                                                 |
| DIVERSIFIED INDUSTRIAL PRODUCTS<br>14 CONNOR LANE<br>DEER PARK, NY 11729 |
| SOLD TO:                                                                 |
| DIVERSIFIED INDUSTRIAL PRODUCTS<br>14 CONNOR LANE<br>DEER PARK, NY 11729 |

**KAISER  
ALUMINUM**  
Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4478709

|                                            |                           |                         |                                      |                                             |
|--------------------------------------------|---------------------------|-------------------------|--------------------------------------|---------------------------------------------|
| CUSTOMER PO NUMBER:<br>098007-3            | WORK PACKAGE:             | CUSTOMER PART NUMBER:   | SHIP RUN/LOAD:<br>104046/16          | GOV'T CONTRACT NUMBER:                      |
| KAISER ORDER NO:<br>1242581-3              | SHIP DATE:<br>20-SEP-2017 | ALLOY:<br>7075          | CLAD:<br>BARE                        | TEMPER:<br>T651                             |
| PRODUCT DESCRIPTION:<br>KaiserSelect Plate |                           |                         |                                      |                                             |
| WEIGHT SHIPPED:<br>3766 LB                 | QUANTITY:<br>3 PCS EST.   | TRUCK B/L #:<br>2069094 | GAUGE:<br>1.7500 IN<br>(44.4500 MM)  | DIAMETER/WIDTH:<br>48.500 IN<br>(1231.9 MM) |
|                                            |                           |                         | LENGTH:<br>144.500 IN<br>(3670.3 MM) |                                             |

MHU 2153028; LOT 704550B3; 3 pieces;

### Certified Specifications

AMS 4045/RevL

AMS-QQ-A-250/ 2/RevA

ASTM B 209/Rev14

Test Code: 1412

Lot: 704550B3

Cast 534

Drop 30

### Test Results

Ingot 1

Parent Lot: 245163B1

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

|          |        |                  |                            |                            |              |
|----------|--------|------------------|----------------------------|----------------------------|--------------|
| Tensile: | Temper | Dir / # Tests    | Ultimate KSI (MPA)         | Yield KSI (MPA)            | Elongation % |
|          | T651   | LT / 2 (Min:Max) | 80.8 : 81.6<br>(557 : 563) | 71.2 : 72.3<br>(491 : 499) | 12.5 : 13.4  |

(ASTM E1251)

|             |      |      |     |      |     |      |     |      |      |      |          |
|-------------|------|------|-----|------|-----|------|-----|------|------|------|----------|
| Chemistry:  | SI   | FE   | CU  | MN   | MG  | CR   | ZN  | TI   | V    | ZR   | OTHER    |
| Actual(wt%) | 0.07 | 0.13 | 1.4 | 0.03 | 2.6 | 0.20 | 5.8 | 0.02 | 0.01 | 0.01 | TOT 0.03 |

### ALLOY LIMITS

|          |      |      |     |      |     |      |     |      |      |      |       |      |
|----------|------|------|-----|------|-----|------|-----|------|------|------|-------|------|
|          | SI   | FE   | CU  | MN   | MG  | CR   | ZN  | TI   | V    | ZR   | OTHER | MAX  |
| 7075     |      |      |     |      |     |      |     |      |      |      |       |      |
| MIN(wt%) | 0.00 | 0.00 | 1.2 | 0.00 | 2.1 | 0.18 | 5.1 | 0.00 | 0.00 | 0.00 | EACH  | 0.05 |
| MAX(wt%) | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20 | 0.05 | 0.05 | TOT   | 0.15 |

Aluminum Remainder

DIVERSIFIED INDUSTRIAL PRODUCTS CORP.  
CERTIFY THIS A TRUE COPY OF THE  
MILL TEST REPORT USED TO FILL YOUR  
ORDER.

Company DART AEROSPACE LTD.

PO# PO038697

Our Inv. # 64915

Qty. 48 FT

Part #

QC Dept. Cathi Vail  
Cathi Vail

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M70754651.750X3.000

PO / BATCH NO.: 038692/5030258

DATE: JAN 09 2018

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 48'  
 QUANTITY INSPECTED: 48'  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.750  
 THICKNESS RECEIVED: 1.750  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

| DESCRIPTION                                        | NCR<br>(Check<br>Y/N) | COMMENTS        |
|----------------------------------------------------|-----------------------|-----------------|
| SURFACE DAMAGE                                     | Y (N)                 |                 |
| CORRECT FINISH                                     | (Y) N                 |                 |
| CORROSION                                          | (Y) (N)               |                 |
| CORRECT GRAIN DIRECTION                            | (Y) N                 |                 |
| CORRECT MATERIAL PER M-DRAWING                     | (Y) N                 | AMS-QQ-A-250    |
| CORRECT THICKNESS                                  | (Y) N                 |                 |
| PHOTO REQUIRED                                     | Y (N)                 |                 |
| CORRECT REF # TO LINK CERT                         | (X) N                 | Heat # 704550B3 |
| CORRECT MATERIAL IDENTIFICATION                    | (X) N                 |                 |
| CORRECT M# ON THE MATERIAL                         | (Y) N                 |                 |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF | Y (N)                 |                 |
| DOES THIS REQUIRE AN<br>EXTRUSION REPORT           | Y (N)                 |                 |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.<br>RECORD RESULTS BELOW |     |     |       |       |         |
|------------------------------------------------------------------------------------|-----|-----|-------|-------|---------|
|                                                                                    | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL                                                                   |     |     |       |       |         |
| SIZE OF TEST SAMPLE                                                                |     |     |       |       |         |
| HARDNESS / DUROMETER READING                                                       |     |     |       |       |         |

testers located in the Quality Office

|                                                         |                                          |
|---------------------------------------------------------|------------------------------------------|
| <b>QC 18 INSPECTION</b>                                 | <b>ENGINEERING SIGNOFF (if required)</b> |
| INSPECTED BY: <u>1-9-86</u><br>DATE: <u>JAN 09 2018</u> | SIGNED OFF BY: _____<br>DATE: _____      |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T62 ALUMINUM SHEET

SPECIFICATION: QQ-A-250/11 OR AMS-QQ-A-250/11  
OR AMS 4025 OR AMS 4027  
OR ASTM B209

PART NUMBER: M6061T6S.XXX  
THK

WHERE ".XXX" = SHEET THICKNESS (IN INCHES)

EG. 0.063" THICK SHEET = M6061T6S.063

PREFERRED SIZE: .XXX BY 4FT BY 8FT

**RELEASED**  
2009-09-10

|            |                                        |    |          |
|------------|----------------------------------------|----|----------|
| B          | REFORMAT DWG. ADD B209 SPEC (2N 08-1). | CP | 09 07 13 |
| A          | NEW ISSUE                              | DS | 01 06 08 |
| REV        | DESCRIPTION                            | BY | DATE     |
| DESIGN     |                                        |    |          |
| DRAWN      |                                        |    |          |
| CHECKED    |                                        |    |          |
| MFG. APPR. |                                        |    |          |
| APPROVED   |                                        |    |          |
| DE APPR.   |                                        |    |          |
| DATE       | 09.07.13                               |    |          |

|                                                                                                                                                                                                                                                                                                                    |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                                           |                        |
| DRAWING NO.<br><b>M6061T6S</b>                                                                                                                                                                                                                                                                                     | REV. B<br>SHEET 1 OF 1 |
| TITLE<br><b>6061-T6 SHEET SPEC</b>                                                                                                                                                                                                                                                                                 | SCALE<br>NTS           |
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1/22/2018

Print



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

## Purchasing Receipts

| PO No   | Supplier  | Line<br>Item<br>No | Rel<br>No | Terms  | Purchased Item      | Description                                                                                                                                                                           | For<br>Part<br>No | Project | Equipment<br>ID | Order<br>Qty | Due<br>Date | Received<br>Quantity | Accounting<br>Job No | Serial<br>No | Status | Receive<br>Date | Price/Unit    | Aging<br>Days | Past<br>Due |
|---------|-----------|--------------------|-----------|--------|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------|-----------------|--------------|-------------|----------------------|----------------------|--------------|--------|-----------------|---------------|---------------|-------------|
| P003887 | DIV001-VU | 1                  | 1         | Net 30 | M7075T6S1.750X3.000 | 7075-T6 Sheet<br>1.750" X<br>3.000"<br>MATERIAL:<br>7075-T6/T62<br>ALUMINUM<br>SHEET AS<br>PER QQ-A-<br>250/12 OR<br>AMS-QQ-A-<br>250/12 OR<br>AMS 4045 OR<br>ASTM B209<br>receive ft |                   |         |                 | 96           | 1/8/2018    | 48                   |                      | ✓ S034216    | Stock  | 1/22/2018       | \$ 44.83 / ft | 0             |             |
| Total:  |           |                    |           |        |                     |                                                                                                                                                                                       |                   |         |                 | 96           |             | 48                   |                      |              |        |                 |               |               | \$          |

Plex 1/22/2018 11:42 AM Dart Dubois Pasco



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO038697**

**Supplier:** DIV001-VU  
Diversified Industrial Products  
14 Connor Lane  
Deer Park, NY 11803 USA  
Phone: 516 822 8300  
Fax: 516 822 8332

**PO No:** PO038697

**PO Date:** 12/20/17

**Due Date:** 1/8/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
clavoie@dartaero.com

**E-MAILED**  
DEC 20 2017

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

## Items

| Line Item | Part                | Supplier Part No | Description                                                                                                                                       | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (USD) | Extended Price |
|-----------|---------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------------|-------------------|---------|------------------|----------------|
| 1         | M7075T6S1.750X3.000 |                  | 7075-T6 Sheet 1.750" X 3.000"<br>: MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft | Firmed | 1/8/18   | 96 ft          | 0 ft              | 96 ft   | \$44.8325/ft     | \$4,303.92     |

*Recu 48 ft*

*SP 18-01-9*

**Grand Total: \$4,303.92**

## Order Notes

Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)  
A026 certification of material conformance  
A041 quality management system  
A042 dart notification by supplier  
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

*CA*  
*[Signature]*

Plex 12/20/17 1:50 PM dart.lavoie.chantal



14 Connor Lane, Deer Park, NY 11729 Tel: 631.761.6200 Fax: 631.761.6201

|               |            |    |
|---------------|------------|----|
| Customer PO # | Order Date | SP |
| PO038697      | 12/20/17   | AB |

|                    |           |
|--------------------|-----------|
| Sales Order Number | 44870     |
| Invoice Date       | 1/12/2018 |
| Invoice Number     | 65066     |

Ship To:

DART AEROSPACE LTD.  
1270 ABERDEEN STREET  
HAWKESBURY, ON K6A 1K7  
CANADA

|        |          |
|--------|----------|
| # Pkg. | 1 BUNDLE |
| Weight | 360 LBS  |

|           |             |              |
|-----------|-------------|--------------|
| Ship Date | Shipped Via | Test Reports |
| 1/12/2018 | JOURNEY FRT | Y            |

| Item # | Order Qty | U/M | Description                                                                                                                                                                  | Qty Shipped                                                  | Bal. on Order |
|--------|-----------|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------|
| 1      | 96        | FT  | 7075-T6 ALUMINUM, QQ-A-250/12 OR<br>ASTM B-209<br>1.75" X 3" X 48"<br>MILL: ARCONIC<br>LOT #: 406161<br><br>SHIPPING SCHEDULE:<br>12 PCS - ASAP<br>12 PCS - WEEK OF 01/12/18 | 48<br><br>48 1/2<br><br>DAS<br>11<br>9-89<br><br>JAN 22 2018 | 0             |

PACKING LIST  
CERTIFICATE OF COMPLIANCE  
We certify that the materials described above conform to the specifications stated.

*Cathie Vail*  
Quality Control Manager



# CERTIFIED INSPECTION REPORT

**Arconic**

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that sample representatives of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or omissions on this certificate by any recipient may be punished as a felony under applicable law.

For:

*S. N. A. L.*  
Markus Schwanen  
Manufacturing Director - Davenport & Bettendorf

*Terence Thom*  
Terence Thom  
Quality Assurance Manager

|                            |          |              |              |               |
|----------------------------|----------|--------------|--------------|---------------|
| 3392610                    | 0        |              |              |               |
| Ship Date                  | B.L. No. | Invoice No.  | Arconic No.  | Item          |
| 2018-01-05                 | 11613717 | 00000        | 1000966375-7 | DP-66375-01-7 |
| P.O. No./Govt Contract No. | Customer | Arconic Item |              |               |

Page 1 of 2

Ship To:  
DIVERSIFIED INDUSTRIAL PRODUCTS  
14 CONNOR LANE  
DEER PARK, NY 11729

Item Description  
1.75 IN TK (+.055 -.055) X 48.5 IN W (+.3125 - 0.000) X 144.5 IN LN (+.5 -0.0) (N) A/T 7075  
T651 RECTANGULAR MILL FINISH, SAWED AMS-QQ-A-250/12 REV A EXC\_MRK,  
OIL AMS4045 REV L EXC\_MRK ASTM209 REV 14  
((MARKED)) KRAFT PAPER  
INTERLEAVED MAX GROSS SKID WGT: 5000 LB QUAN TOL +/-  
40 ± CQR 0246852 REV 02 CUST REQ 18-01-  
01 \*\*\* W/E 18-01-06 \*\*\*

| Num | Package Ticket | Lot    | Weight | Quantity | UC | Inspector Clock Numbers |
|-----|----------------|--------|--------|----------|----|-------------------------|
| 1   | 432949         | 406161 | 3716   | 3        | PC | 47390                   |
| 2   | 432980         | 406161 | 3726   | 3        | PC | 47390                   |
| 3   | 432989         | 406161 | 1252   | 1        | PC | 47390                   |
|     |                |        | 8694   | 7        |    |                         |

Notes for CQR: 0246852.2

PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ- A-250/12 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/12F. PROD UCT  
PRODUCED AND MARKED TO THE REQUIREMENTS OF QQ-A-250/12 F ALSO MEETS THE REQUIREMENTS OF AMS-QQ-A-250/12.

CQR: 0246852.2 -Specification Limits -----

| Temp Dir          | UTS | TYS  | ELAD   |
|-------------------|-----|------|--------|
|                   | KSI | KSI  | PCT    |
| T651 Long Transv. | Max |      |        |
|                   | Min | 77.0 | 67.0 6 |

| Chemical Composition | SI  | FE   | CU   | MN  | MG   | CR  | ZN   | TI  | Other Each | Other Total | Aluminum |
|----------------------|-----|------|------|-----|------|-----|------|-----|------------|-------------|----------|
| Alloy 7075           | Max | 0.40 | 0.50 | 2.0 | 0.30 | 2.9 | 0.28 | 6.1 | 0.20       | 0.05        | 0.15     |
|                      | Min |      |      | 1.2 |      | 2.1 | 0.18 | 5.1 |            |             |          |

REMAIN

DIVERSIFIED INDUSTRIAL PRODUCTS CORP.  
CERTIFY THIS A TRUE COPY OF THE  
MILL TEST REPORT USED TO FILL YOUR  
ORDER.

|            |                                 |
|------------|---------------------------------|
| Company    | DART AEROSPACE                  |
| PO#        | PO038697                        |
| Our Inv. # | 65066                           |
| Qty.       | 48 FT                           |
| Part #     | M7075T6S1.750X3.000             |
| QC Dept.   | <i>Cathi Vall</i><br>Cathi Vall |

# CERTIFIED INSPECTION REPORT

**Arconic**

DAVENPORT WORKS 4879 State Street Bettendorf, IA 52722

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

This test report shall not be reproduced except in full, without the written approval of the Quality Department. No alteration, addition or other change is authorized to be made to this certificate. The recording of false, fictitious, or otherwise fraudulent statements or entries on this certificate by any recipient may be punished as a felony under applicable law.

Per:

*S. H. H.*  
Nancy Schinnerer  
Manufacturing Director - Davenport & Bettendorf

*Terence Thom*  
Terence Thom  
Quality Assurance Manager

3392610 0  
Ship Date B.I. No. Invoice No. Arconic No. Item  
2018-01-05 11613717 00000 1000966375-7 DP-66375-01-7  
P.O. No./Govt Contract No. Customer Arconic Item

Ship From: RIVERDALE, IA.

Page 2 of 2

CQR: 0246852.2 -Specification Limits (cont.)

Lot: 406161 - Mechanical, Physical, Metallography, Quantometer Results

| Temp | Dir          | No-> | UTS  | TYS  | ELAD |
|------|--------------|------|------|------|------|
|      |              | Test | KSI  | KSI  | PCT  |
| T651 | Long Transv. | 3    | 83.1 | 73.6 | 11.1 |
|      |              |      | 83.3 | 74   | 11   |
|      |              |      | 83.2 | 73.8 | 11.1 |

| Cast Number | Chemical - OBS | SI   | FE   | CU  | MN   | MG  | CR   | ZN  | TI   | Other  | Each   | Other | Total |
|-------------|----------------|------|------|-----|------|-----|------|-----|------|--------|--------|-------|-------|
| H9436061    | Actuals        | 0.08 | 0.26 | 1.6 | 0.00 | 2.5 | 0.20 | 5.6 | 0.02 | < 0.05 | < 0.15 |       |       |

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL 1170757651.750x3.000  
DATE: JAN 22 2018

PO / BATCH NO 038687/5034218

MATERIAL CERT REC'D: Yes  
QUANTITY RECEIVED: 48'  
QUANTITY INSPECTED: 48'  
QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.750  
THICKNESS RECEIVED: 1.750  
SHEET SIZE ORDERED: N/A  
SHEET SIZE RECEIVED: N/A

| DESCRIPTION                                        | NCR<br>(Check<br>Y/N) | COMMENTS           |
|----------------------------------------------------|-----------------------|--------------------|
| SURFACE DAMAGE                                     | Y (N)                 |                    |
| CORRECT FINISH                                     | (Y) (N)               |                    |
| CORROSION                                          | Y (N)                 |                    |
| CORRECT GRAIN DIRECTION                            | (Y) (N)               |                    |
| CORRECT MATERIAL PER M-DRAWING                     | (Y) (N)               | ASTM-A-270 QQ-A250 |
| CORRECT THICKNESS                                  | (Y) (N)               |                    |
| PHOTO REQUIRED                                     | Y (N)                 |                    |
| CORRECT REF # TO LINK CERT                         | (Y) (N)               | Heat# Lot# 406161  |
| CORRECT MATERIAL IDENTIFICATION                    | (Y) (N)               |                    |
| CORRECT M# ON THE MATERIAL                         | (Y) (N)               |                    |
| DOES THIS MATERIAL REQUIRE<br>ENGINEERING SIGN OFF | Y (N)                 |                    |
| DOES THIS REQUIRE AN<br>EXTRUSION REPORT           | Y (N)                 |                    |

| CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.<br>RECORD RESULTS BELOW |     |     |       |       |         |
|------------------------------------------------------------------------------------|-----|-----|-------|-------|---------|
|                                                                                    | HRC | HRB | DUR A | DUR D | WEBSTER |
| TYPE OF MATERIAL                                                                   |     |     |       |       |         |
| SIZE OF TEST SAMPLE                                                                |     |     |       |       |         |
| HARDNESS / DUROMETER READING                                                       |     |     |       |       |         |

testers located in the Quality Office

|                          |                      |                                          |  |
|--------------------------|----------------------|------------------------------------------|--|
| <b>QC 18 INSPECTION</b>  |                      | <b>ENGINEERING SIGNOFF (if required)</b> |  |
| INSPECTED BY: <u>11</u>  | SIGNED OFF BY: _____ |                                          |  |
| DATE: <u>9-89</u>        | DATE: _____          |                                          |  |
| DATE: <u>JAN 22 2018</u> |                      |                                          |  |

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



# **SPECIFICATION CONTROL DRAWING**

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12  
OR AMS 4045  
OR ASTM B209

OR

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

△ SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13  
OR AMS 4048 / 4049  
OR ASTM B209

△ PART NUMBER: M7075T6S | TTT | X | W.WWW |  
| THK | | WIDTH |

△ WHERE "TTT" = THICKNESS (IN INCHES)  
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063  
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

△ PREFERRED SIZE: .TTT BY 4FT BY 10FT FOR SHEET

**RELEASED**

2017 JUN 19  
ECN 17-574

|            |                                                                             |                                                   |              |          |
|------------|-----------------------------------------------------------------------------|---------------------------------------------------|--------------|----------|
| B          | ADD: REF TO "PLATE", T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) |                                                   | CP           | 17.05.05 |
| A          | NEW ISSUE                                                                   |                                                   | RF           | 10.11.08 |
| REV.       | DESCRIPTION                                                                 |                                                   | BY           | DATE     |
| DESIGN     | RF                                                                          | DART AEROSPACE LTD<br>HAWKESBURY, ONTARIO, CANADA |              |          |
| DRAWN      | CP                                                                          | DRAWING NO. M7075T6S                              |              |          |
| CHECKED    | ML                                                                          | REV. B                                            |              |          |
| MFG. APPR. | LL                                                                          | SHEET 1 OF 1                                      |              |          |
| APPROVED   | WM                                                                          | TITLE                                             |              |          |
| DE APPR.   | DS                                                                          | 7075-T6 SHEET/PLATE SPEC                          |              |          |
| DATE       | 17.05.05                                                                    |                                                   | SCALE<br>NTS |          |

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Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO040123**

**Supplier:** ATG001-VC  
A.T.G. Industries Inc  
731 INDUSTRIELLE ROAD  
ROCKLAND  
ON  
K4K 1T2 Canada  
Phone: 613-446-4544  
Fax: 613-446-4556

**Attention:** Lalande, Marc-Andre

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** PO040123

**PO Date:** 6/6/18

**Due Date:** 6/8/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Tsimiklis, ChrisoulaPhone:

**Via:** Ground

**Pynt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

## Items

| Line Item | Job    | Part    | Description                                                                                                                                                         | Status | Due Date | Order Quantity | Received Quantity | Balance | Unit Price (CAD)    | Extended Price  |
|-----------|--------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------|----------------|-------------------|---------|---------------------|-----------------|
| 1         | 178673 | D5573-1 | Base Bracket, Upper, Cable Cutter, LH<br>Issue P/O to ATG : _____<br><br>Black Anodize & Prime as per Dwg.<br>D5573<br><br>Certification of Conformity is required. | Firmed | 6/8/18   | 1 pcs          | 0 pcs             | 1 pcs   | \$50.00/pcs         | \$50.00         |
| 2         | 178602 | D5573-2 | Base Bracket, Upper, Cable Cutter, RH<br>Issue P/O to ATG : _____<br><br>Black Anodize & Prime as per Dwg.<br>D5573<br><br>Certification of Conformity is required. | Firmed | 6/8/18   | 1 pcs          | 0 pcs             | 1 pcs   | \$50.00/pcs         | \$50.00         |
|           |        |         |                                                                                                                                                                     |        |          |                |                   |         | <b>Grand Total:</b> | <b>\$100.00</b> |

## Order Notes

Procurement Quality Clauses  
A005 right of entry  
A012 chemical and physical test report  
A016 personnel qualification  
A017 raw material identification (as applicable)

A022 Apical Processing  
A024 process certifications  
A026 certification of material conformance

A041 quality management system  
A042 dart notification by supplier  
A043 retension of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.



A.T.G. Industries Inc.  
731 Industrielle Street  
Rockland, ON K4K 1T2  
Canada

Ph: (613) 446-4544

Fax: (613) 446-4556

### Pack List

Number: 915342

Date: 08-Jun-18

#### To

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury, ON K6A 1K7

#### Ship To

Chrisoula Tsimiklis  
Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury, ON K6A 1K7

Ph: 613 632-9577

Fax: 613 632-1053

Ph: 613 632-9577

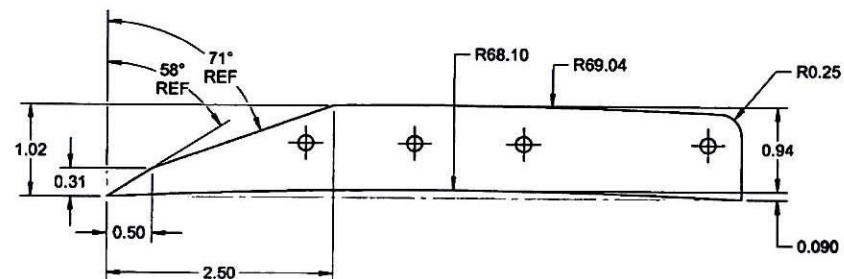
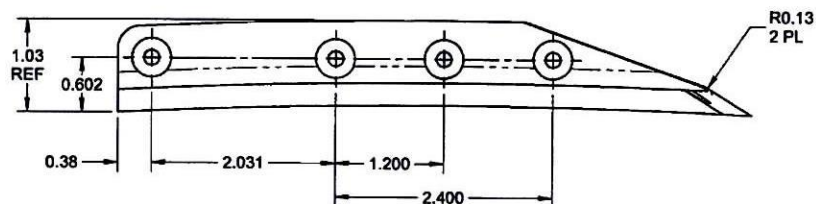
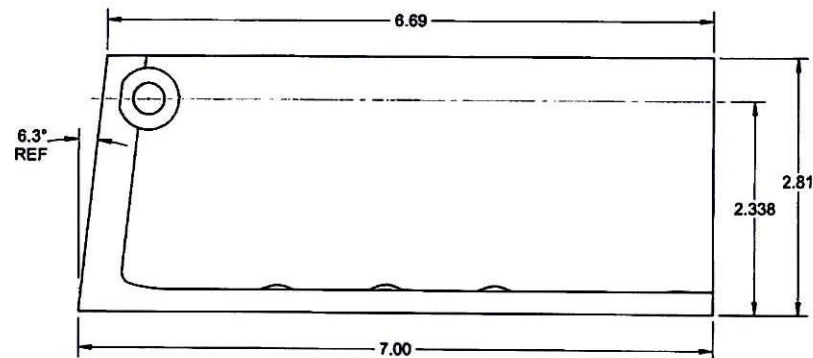
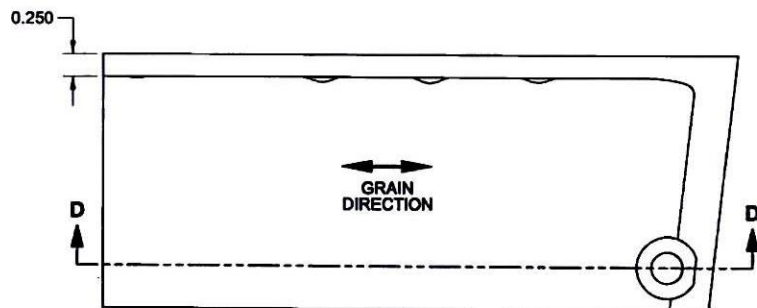
Fax: 613 632-1053

| Terms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                               | Ship Via  |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                               | OUR TRUCK |                         |
| Quantity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Description                                                                                                                                                                                   |           |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Please reference this document's Pack List number on all correspondences regarding this shipment. If you have any questions, please contact us.                                               |           |                         |
| 1<br>ea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Part: D5573-1<br>Base Bracket, Upper Cable LH<br>Hard Black Anodize per MIL-A-8625F, Type II, Class 2, .<br>Prime IAW Mil-P-23377 J Type I Class N; 1-2 mil max as per QSI 005<br>Job: 23219  | Rev: A    | PO: PO040123<br>Line: 1 |
| 1<br>ea                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Part: D5573-2<br>Base Bracket, Upper Cutter RH<br>Hard Black Anodize per MIL-A-8625F, Type II, Class 2, .<br>Prime IAW Mil-P-23377 J Type I Class N; 1-2 mil max as per QSI 005<br>Job: 23220 | Rev: A    | PO: PO040123<br>Line: 2 |
| <p>CERTIFICATE OF CONFORMANCE<br/>A.T.G Industries Inc. certifies that all items in this shipment conform to the requirements.</p> <p>Date: <u>08/06/2018</u></p> <p>Certified Signature: <u>[Signature]</u></p> <p>Receiver Signature: _____</p> <p>A.T.G Industries Inc. is AS9100 Registered and Nadcap Chemical Processing Accredited.</p> <p>Note: This Packing Slip may contain parts that have been PLATED. Items that are plated may be subject to natural tarnishing and it is suggested that they be inspected within 24 hours of receipt.</p> |                                                                                                                                                                                               |           |                         |

Made in Canada.



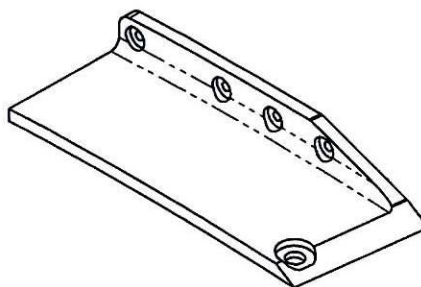
8 7 6 5 4 3 2 1



**D5573-2 BASE BRACKET, UPPER, CABLE CUTTER (RH)**

**NOTES:**

- 1) MATERIAL: 7075-T6 (OR T651/T6510/T6511/T62) ALUMINUM BAR  
PER AMS-QQ-A-225/9 (OR AMS 4122/4123/4186/4187) OR  
PER AMS-QQ-A-200/11  
REF DART SPEC M7075T6B  
OR: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE  
PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR  
AMS 4045 OR ASTM B209  
REF DART SPEC M7075T6S
- 2) FINISH: ANODIZE PER MIL-A-8625, TYPE II, CLASS 2, COLOR = BLACK  
PRIME USING MIL-PRF-23377, 1-2 MIL MAX, PER DART QSI 005 4.2.1.3.2
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.7
- 7) WEIGHT: 0.56 lbs



**RELEASED**

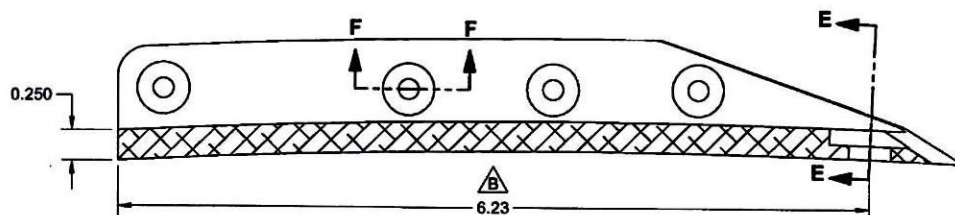
2018 JUN 11

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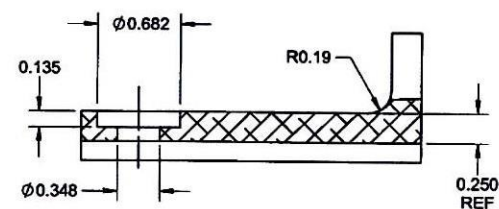
|            |          |                                              |              |
|------------|----------|----------------------------------------------|--------------|
| DESIGN     | AJS      | <b>DART AEROSPACE USA, INC.</b>              |              |
| DRAWN      | CP       | EUGENE, OR                                   |              |
| CHECKED    | ML       | DRAWING NO.                                  | REV. B       |
| MFG. APPR. | RQ       | <b>D5573</b>                                 | SHEET 3 OF 4 |
| APPROVED   | HS       | TITLE                                        | SCALE        |
| DE APPR.   | CP       | <b>BASE BRACKET, UPPER, CABLE CUTTER</b>     | NTS          |
| DATE       | 18.06.04 | COPYRIGHT © 2017 BY DART AEROSPACE USA, INC. |              |

8 7 6 5 4 3 2 1

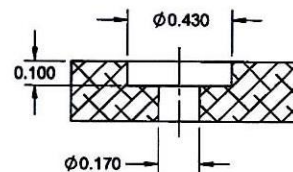
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**SECTION D-D**  
SCALE 1.25X



**SECTION E-E**



**SECTION F-F**  
4 PL  
SCALE 2X

RELEASED

2018 JUN 11

APPROVED

|                                                                                                                                                                                                                                      |          |                                              |              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------------------------------------|--------------|
| DESIGN                                                                                                                                                                                                                               | AJS      | <b>DART AEROSPACE USA, INC.</b>              |              |
| DRAWN                                                                                                                                                                                                                                | CP       | EUGENE, OR                                   |              |
| CHECKED                                                                                                                                                                                                                              | ML       | DRAWING NO.                                  | REV. B       |
| MFG. APPR.                                                                                                                                                                                                                           | RQ       | <b>D5573</b>                                 | SHEET 4 OF 4 |
| APPROVED                                                                                                                                                                                                                             | HS       | TITLE                                        | SCALE        |
| DE APPR.                                                                                                                                                                                                                             | CP       | <b>BASE BRACKET, UPPER, CABLE CUTTER</b>     | NTS          |
| DATE                                                                                                                                                                                                                                 | 18.06.04 | COPYRIGHT © 2017 BY DART AEROSPACE USA, INC. |              |
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